

- Bond, J. 1980. *Twenty-third Supplement to the Check-list of Birds of the West Indies (1956)*. Acad. Nat. Sci. Philadelphia.
- Bond, J. & Meyer de Schauensee, R. 1944. The Birds. Pp. 7–45 in 'Results of the fifth George Vanderbilt Expedition (1941)'. *Acad. Nat. Sci. Philadelphia Monograph* No. 6.
- Brudenell-Bruce, P. G. C. 1975. *The Birds of New Providence and the Bahama Islands*. Collins.
- Buden, D. W. 1987a. *The Birds of the Southern Bahamas*. B.O.U. Check-list No. 8. British Ornithologists' Union.
- Buden, D. W. 1987b. Birds of the Cay Sal Bank and Ragged Islands, Bahamas. *Florida Sci.* 50: 21–33.
- Greenway, J. C. Jr. 1933. A name for the Golden Warbler of Old Providence Island. *Proc. New England Zool. Cl.* 13: 63 bis–64 bis.
- Olson, S. L. & Hilgartner, W. B. 1982. Fossil and subfossil birds from the Bahamas. Pp. 22–60 in S. L. Olson Ed., 'Fossil vertebrates from the Bahamas'. *Smithsonian Contrib. to Paleobiol.* 48.
- Olson, S. L., Pregill, G. K. & Hilgartner, W. B. (in press). Studies on fossil and extant vertebrates from San Salvador (Watling's Island), Bahamas. *Smithsonian Contrib. to Zoology*.
- Ridgway, R. 1914. The birds of North and Middle America. *Bull. U.S. Natl. Mus.* No. 50, Pt. 6.
- Short, L. L. 1982. *Woodpeckers of the World*. Delaware Mus. Nat. Hist., Monograph Series No. 4.
- Sprunt, A. 1984. The status and conservation of seabirds of the Bahama Islands. Pp. 157–168 in J. P. Croxall, P. G. H. Evans & R. W. Schreiber (Eds) 'Status and Conservation of World's Seabirds'. *Internat. Coun. Bird Pres. Tech. Publ.* No. 2.
- Wetmore, A. 1938. Bird remains from the West Indies. *Auk* 55: 51–55.

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## Avian body weights from the lower Rio Xingu, Brazil

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From 13 August to 30 September 1986, we surveyed the avifauna of the east bank of the lower Rio Xingu ( $3^{\circ}39'S$ ,  $52^{\circ}22'W$ ) from an encampment 52 km SSW of Altamira, Pará, Brazil, as part of a biological survey of the region sponsored by the Academia Brasileira de Ciências. The purpose of this paper is to present data on the body weights of birds sampled from populations at this locality. Some data of this type from eastern Amazonia are scattered among recent publications (e.g. Oren 1987), but most of these deal only with selected species. None of the older works on birds of the lower Rio Xingu mentions body weights (Snethlage 1913, Griscom & Greenway 1941).

Three major terrestrial habitats occur naturally along the lower Rio Xingu: (1) *seasonally flooded forest*; (2) *terra firme forest*; (3) *successional island scrub*. A fourth habitat type, agricultural clearing and man-caused secondary growth, was restricted to small scattered patches near the river

on the east bank. We used mist-netting as well as straight observation, and collected some specimens. A network of trails (10+ km) radiating from the base camp was cut through virgin forest and secondary growth. Mist-nets (12 m) were set using standard techniques in selected sites in all 'mainland' habitat types. 12–30 mist-nets ( $\bar{x}=22$ ) were maintained throughout the survey period, for a total of 1056 net/days. More than two-thirds of the field observation time (288 hrs) was spent in seasonally flooded and terre firme forest. 263 species were recorded during the survey. Based on the cumulative curve of species added over 48 survey days, we estimate that from 300–310 species were resident within 10 km of our base camp.

Below we present body weight data by sex for 750 individuals of 201 species. For reference, 62 species observed but not collected are listed in the Appendix. Voucher specimens were deposited in the National Museum of Natural History (Smithsonian Institution) and the Museum of Zoology, University of São Paulo. Weights of birds (including gut contents) were taken soon after death with Pesola spring scales for 5, 10, 30, 50, 100 and 300 g and with a 10 kg spring scale. Weights up to 10 g were rounded to the nearest 0.1 g, those from 10 to 300 g to the nearest 1.0 g, and those above 300 g to the nearest 5.0 g. Because our spring scales measure weights but read in grams (unit of mass), we use the familiar term 'weight' while presenting the figures in grams.

These weight data include species that have small geographic ranges (e.g. *Penelope pileata*, *Gypopsitta vulturina*, *Pyrrhura perlata*, *Neomorphus squamiger*, *Lophornis gouldii*) or are rare and poorly known (e.g. *Synallaxis cherriei*, *Simoxenops ucayalae*, *Hylopezus berlepschi*, *Conopophaga melanogaster*, *Taeniotriccus andrei*). Also noteworthy are data for large-bodied species that are rarely weighed in the field (e.g. *Phalacrocorax olivaceus*, *Cathartes melambrotos*, *Leucopternis schistacea*, *Psophia viridis*). Notes on the taxonomy and distribution of selected species will be published elsewhere.

Taxonomy of the species arrangement below follows Morony *et al.* (1975). Numbers in parentheses equal sample size for a particular weight class. <sup>a</sup>Collected on the east bank of the Rio Iriri near the confluence of the Rio Xingu and Rio Iriri (Iriri Camp, 85 km SW Altamira, 3°50'S, 52°40'W).

*Tinamus major*: ♂ 1050

*Crypturellus variegatus*: ♂♂ 310, 365

*Phalacrocorax olivaceus*: ♂♂ 1400, 1450

*Ardea cocoi*: ♀ 2100

*Cathartes melambrotos*: ♂ 1650

*Harpagus bidentatus*: ♂ 165

*Accipiter superciliosus*: ♂ 67

*Leucopternis schistacea*: ♀ 455

*Daptrius americanus*: ♂ 510

*Falco rufigularis*: ♂ 125

*Ortalis motmot*: ♂ 345

*Penelope pileata*: ♂ 1100; ♀ 1420<sup>a</sup>

*Crax fasciolata*: ♀ 2280

*Odontophorus gujanensis*: ♂ 380

*Psophia viridis*: ♀ 1170<sup>a</sup>, 1200<sup>a</sup>

*Aramides cajana*: ♂ 420; ♀ 350

- Vanellus cayanus*: ♂ 72, 73; ♀ 79  
*Phaetusa simplex*: ♀ 240  
*Columba plumbea*: ♂ 132; ♀ 126  
*Columbina passerina*: ♂♂ 24 (2); ♀ 28  
*Leptotila verreauxi*: ♂ 140  
*Leptotila rufaxilla*: ♂♂ 115, 135, 162, 167; ♀♀ 122, 128, 137, 145  
*Geotrygon montana*: ♂♂ 86, 105  
*Ara ararauna*: ♀ 995  
*Ara macao*: ♀ 1040  
*Ara severa*: ♀ 285  
*Aratinga leucophthalmus*: ♀♀ 145, 148  
*Aratinga aurea*: ♂ 94  
*Pyrrhura perlata*: ♂♂ 70, 80  
*Pyrrhura picta*: ♂♂ 46, 47, 51; ♀ 48  
*Brotogeris chrysopterus*: ♂♂ 68, 72; ♀♀ 58, 59  
*Gypopsitta vulturina*: ♂♂ 138, 150; ♀ 142  
*Pionus menstruus*: ♂ 215  
*Amazona ochrocephala*: ♂ 535; ♀ 505  
*Piaya cayana*: ♂ 92  
*Crotophaga major*: ♂♂ 170, 200  
*Neomorphus squamiger*: ♂ 340<sup>a</sup>  
*Otus choliba*: ♂ 123; ♀ 125  
*Otus watsoni*: ♂♂ 115 (2), 116, 122; ♀♀ 127, 141  
*Ciccaba virgata*: ♂ 240  
*Lurocalis semitorquatus*: ♂ 60  
*Nyctiprogne leucopyga*: ♂♂ 23, 24 (2), 27; ♀♀ 23 (2), 26  
*Nyctidromus albicollis*: ♂♂ 49, 53, 54  
*Nyctiphrynus ocellatus*: ♂ 35; ♀ 39  
*Caprimulgus nigrescens*: ♀♀ 33, 38, 40  
*Hydropsalis climacocerca*: ♂♂ 39, 41, 54, 55; ♀♀ 35, 47  
*Glaucis hirsuta*: ♂♂ 5.6, 6.0, 6.3, 6.5  
*Threnetes leucurus*: ♂♂ 4.8, 5.4  
*Phaethornis superciliosus*: ♂♂ 4.5, 4.6 (2), 4.8, 4.9, 5.0 (3), 5.5; ♀♀ 4.2, 4.5, 5.6  
*Phaethornis ruber*: ♂ 2.3; ♀ 2.3  
*Campylopterus largipennis*: ♀ 7.0  
*Lophornis gouldii*: ♀ 2.4  
*Thalurania furcata*: ♂♂ 4.0, 4.1 (2), 4.3; ♀♀ 3.3, 3.4, 3.8, 4.1, 4.2  
*Polyplanta aurescens*: ♂ 6.0  
*Heliophryx aurita*: ♂ 4.5  
*Trogon viridis*: ♂ 81; ♀ 87  
*Chloroceryle amazona*: ♂ 116; ♀ 105  
*Chloroceryle americana*: ♂ 24  
*Chloroceryle inda*: ♂♂ 41, 51; ♀ 50  
*Chloroceryle aenea*: ♂ 11  
*Momotus momota*: ♂ 148  
*Galbula albirostris*: ♂♂ 20, 21 (2), 23 (3), 24 (2); ♀♀ 21 (2), 22  
*Galbula ruficauda*: ♂ 22 (2); ♀♀ 20, 22  
*Galbula dea*: ♂♂ 30, 39  
*Jacamerops aurea*: ♂ 73  
*Notharchus tectus*: ♀ 30  
*Malacoptila rufa*: ♂♂ 39, 44; ♀♀ 40, 43  
*Monasa nigrifrons*: ♂♂ 68 (2), 71, 75; ♀♀ 75, 77  
*Monasa morphoeus*: ♂ 77; ♀ 87  
*Chelidoptera tenebrosa*: ♂♂ 34, 36  
*Pteroglossus bitorquatus*: ♀ 120  
*Pteroglossus aracari*: ♂♂ 237, 272  
*Ramphastos vitellinus*: ♀ 317  
*Ramphastos tucamus*: ♂♂ 555, 570  
*Picummus aurifrons*: ♂ 9.1  
*Veniliornis affinis*: ♂ 30  
*Piculus flavigula*: ♂♂ 64, 68; ♀ 63  
*Celeus flavus*: ♂♂ 105, 114

- Dryocopus lineatus*: ♂ 174  
*Campephilus rubricollis*: ♂ 207  
*Dendrocincla fuliginosa*: ♂♂ 37, 43 (3), 44 (3); ♀♀ 29, 35, 36  
*Dendrocincla merula*: ♂♂ 28, 31, 32 (2), 35, 36, 38, 43; ♀♀ 29, 33, 34  
*Deconychura stictolaema*: ♀ 13 (2)  
*Sittasomus griseicapillus*: ♂ 17; ♀ 11  
*Glyphorhynchus spirurus*: ♂ 14, 15, 16 (2), 17 (4), 20; ♀♀ 13, 15, 21 (2)  
*Nasica longirostris*: unsexed 82  
*Xiphocolaptes promeropirhynchus*: ♂ 111; ♀ 102  
*Dendrocolaptes concolor*: ♂♂ 50, 52, 58, 62; ♀♀ 52 (2), 64, 66, 67  
*Dendrocolaptes picumnus*: ♂ 77  
*Xiphorhynchus picus*: ♂♂ 34, 35, 36; ♀♀ 34, 35, 38  
*Xiphorhynchus obsoletus*: ♂♂ 27, 30; ♀♀ 24, 26, 30 (2)  
*Xiphorhynchus spixii*: ♂♂ 30 (2); ♀♀ 30, 31, 32  
*Xiphorhynchus eytoni*: ♂♂ 61 (3), 64, 65; ♀♀ 45, 50, 53, 55  
*Campylorhamphus procurvovoides*: ♀♀ 38 (2)  
*Furnarius figulus*: ♂ 28  
*Synallaxis gujanensis*: ♂ 19  
*Synallaxis rutilans*: ♂ 14; ♀♀ 17 (2), 19  
*Synallaxis cherriei*: ♂ 16  
*Simoxenops ucayalae*: ♂ 39 (placed in *Philydor* by Morony *et al.* 1975)  
*Philydor erythrocerus*: ♂♂ 24 (2); ♀♀ 18, 20, 21 (2), 22  
*Philydor pyrrhodes*: ♂ 33; ♀ 24  
*Automolus infuscatus*: ♂♂ 35, 36, 37, 41; ♀♀ 32, 34  
*Automolus rufipileatus*: ♂♂ 36, 38 (3); ♀ 31  
*Xenops minutus*: ♂♂ 9.3, 10.0 (2), 11 (2); ♀♀ 8.8, 9.0, 9.9  
*Sclerurus mexicanus*: ♂♂ 20, 21, 22 (2); ♀♀ 21, 27  
*Sclerurus caudacutus*: ♂♂ 34, 35; ♀ 35  
*Cymbilaimus lineatus*: ♂♂ 31, 36  
*Taraba major*: ♂ 57  
*Sakesphorus luctuosus*: ♂♂ 31, 34 (2); ♀♀ 28 (2), 32, 33  
*Thamnophilus schistaceus*: ♂♂ 19, 20; ♀ 21  
*Thamnophilus amazonicus*: ♂♂ 15, 19 (3), 22; ♀♀ 17 (2), 21  
*Pygiptila stellaris*: ♂♂ 19, 23; ♀♀ 21, 23, 24  
*Thamnomanes caesioides*: ♂♂ 13 (4), 14, 15 (2), 16 (4); ♀♀ 13 (3), 14 (2), 15 (3), 18  
*Myrmotherula brachyura*: ♀ 7.5  
*Myrmotherula surinamensis*: ♂♂ 7.2, 8.0, 8.2; ♀♀ 7.8, 8.0  
*Myrmotherula hauxwelli*: ♂♂ 8.4 (3), 9.0, 9.5; ♀♀ 8.7, 9.2 (2), 9.6  
*Myrmotherula leucophthalma*: ♂ 9.6; ♀♀ 8.0, 10.2  
*Myrmotherula ornata*: ♂♂ 8.6, 9.0, 9.5 (2); ♀ 9.3  
*Myrmotherula axillaris*: ♂♂ 6.1, 6.6, 7.0, 7.2; ♀♀ 7.0, 7.3  
*Myrmotherula longipennis*: ♂ 8.0; ♀♀ 7.4, 8.4, 8.6  
*Myrmotherula menetriesii*: ♂♂ 8.6, 9.0; ♀ 9.0  
*Herpsilochmus rufimarginatus*: ♂ 10.0; ♀ 11  
*Cercomacra nigrescens*: ♂♂ 15, 16 (5), 18, 19, 21; ♀♀ 14, 15, 16  
*Pyriglena leuconota*: ♂♂ 26 (3), 29 (2), 30, 31, 34, 36; ♀♀ 24, 27 (2), 28 (2), 30  
*Myrmoborus leucophrys*: ♂♂ 18, 21; ♀ 17  
*Myrmoborus myotherinus*: ♂♂ 15 (2), 16, 18; ♀ 17  
*Hypocnemis cantator*: ♂♂ 10 (2), 11 (2), 12; ♀♀ 10, 11  
*Hypocnemoides maculicauda*: ♂♂ 11, 12 (4), 13; ♀ 12  
*Sclateria naevia*: ♀ 22  
*Pernostola leucostigma*: ♂♂ 22, 24, 25 (2), 26; ♀♀ 21, 22, 23  
*Hylophylax naevia*: ♂♂ 9.5, 11 (4), 12; ♀♀ 10, 11, 13  
*Hylophylax punctulata*: ♂♂ 9.4, 9.8, 11; ♀♀ 12, 13  
*Hylophylax poecilonota*: ♂♂ 14, 16 (2); ♀♀ 14 (2), 15, 16 (2), 17  
*Phlegopsis nigromaculata*: ♂♂ 40, 42, 46, 48, 49; ♀♀ 36 (2), 37, 41, 43 (2)  
*Formicarius colma*: ♂♂ 38, 39, 40 (2), 46, 47; ♀♀ 41, 44, 48  
*Formicarius analis*: ♂♂ 45, 50, 57; ♀ 54  
*Grallaria varia*: ♂ 121; ♀ 98  
*Hylopezus berlepschi*: ♀ 39  
*Conopophaga aurita*: ♂♂ 22, 25; ♀♀ 20, 24  
*Conopophaga melanogaster*: ♂ 42

- Lipaugus vociferans*: ♂♂ 68, 80; ♀♀ 75, 77  
*Pachyramphus marginatus*: ♂ 18  
*Pachyramphus minor*: ♀ 32  
*Cephalopterus ornatus*: ♂ 705; ♀♀ 380, 405  
*Pipra rubrocapilla*: ♀ 10  
*Piprafasciicauda*: ♂♂ 11, 12 (3), 13 (4), 14 (5), 15 (3), 16 (3), 17 (3); ♀♀ 11, 12 (3), 13 (5), 14 (5), 15 (7), 16 (4)  
*Heterocercus linteatus*: ♀♀ 16, 20  
*Knipolegus orenocensis*: ♂♂ 19, 21; ♀ 18  
*Megarhynchus pitangua*: ♂ 63  
*Myiarchus ferox*: ♂♂ 22, 24; ♀ 17  
*Attila spadiceus*: ♀ 33  
*Attila cinnamomeus*: ♂ 38; ♀ 35  
*Rhytipterna simplex*: ♀ 29  
*Empidonax euleri*: ♂ 12  
*Terenotriccus erythrorus*: ♂♂ 6.0, 6.3, 6.5  
*Onychorhynchus coronatus*: ♂♂ 12, 13 (2), 14 (2)  
*Platyrinchus platyrhynchus*: ♂♂ 11, 12; ♀ 11  
*Tolmomyias sulphurescens*: ♂ 11; ♀♀ 12, 13  
*Tolmomyias poliocephalus*: ♂♂ 10, 11  
*Tolmomyias flaviventris*: ♂♂ 9, 10, 11; ♀ 11  
*Rhynchocyclus olivaceus*: ♂♂ 21, 22; ♀♀ 18, 22  
*Todirostrum maculatum*: ♂ 6.8; ♀ 7.5  
*Snethlagea minor*: ♂♂ 6.0, 6.9, 7.0, 7.6; ♀♀ 6.0, 6.8, 7.0  
*Taeniotriccus andrei*: ♂♂ 8.0, 8.6, 8.8, 9.6  
*Myiornis ecaudatus*: ♂ 4.3; ♀ 4.8  
*Capsiempis flaveola*: ♂ 8.0  
*Inezia subflava*: ♂♂ 6.0, 7.3; ♀ 7.0  
*Camptostoma obsoletum*: ♂ 7.5; ♀ 8.0  
*Tyranniscus gracilipes*: ♂ 8.0  
*Pipromorpha oleaginea*: ♂♂ 7.6, 8.5, 9.0, 9.5, 9.9; ♀♀ 7.1, 8.0, 8.3, 9.6  
*Pipromorpha macconnelli*: ♂♂ 11 (3), 12, 13 (2); ♀ 11  
*Corythopsis torquata*: ♀ 13 (placed in Formicariidae by Morony *et al.* 1975)  
*Campylorhynchus turdinus*: unsexed 38  
*Thryothorus coraya*: ♂ 19; ♀ 19  
*Thryothorus leucotis*: ♂♂ 16 (2), 18, 19; ♀ 16  
*Microcerculus marginatus*: ♂ 17; ♀♀ 14, 17  
*Turdus fumigatus*: ♂♂ 60, 67; ♀♀ 53, 59, 72  
*Turdus albicollis*: ♂♂ 36, 39, 47; ♀♀ 39, 46  
*Ramphocaenus melanurus*: ♂ 7.6; ♀♀ 7.8, 8.4, 8.6  
*Polioptila plumbea*: ♀ 6.8  
*Oryzoborus angolensis*: ♂♂ 11 (2), 12; ♀ 10  
*Arremon taciturnus*: ♂♂ 21 (2), 22 (2), 23, 24, 25, 26; ♀♀ 18, 23, 25  
*Paroaria gularis*: ♂♂ 22, 23; ♀♀ 19, 25, 27  
*Saltator maximus*: ♂♂ 33, 38, 40, 41; ♀♀ 35, 41, 43, 45  
*Pitylus grossus*: ♂♂ 22, 23; ♀♀ 19, 25, 27  
*Passerina cyanoides*: ♂♂ 21 (2), 22, 23 (4), 25 (2); ♀♀ 22, 24, 25, 26  
*Hemithraupis guira*: ♂♂ 11 (2), 12  
*Tachyphonus cristatus*: ♂ 23  
*Tachyphonus rufus*: ♀ 36  
*Habia rubica*: ♂ 32  
*Ramphocelus carbo*: ♂♂ 20, 21, 22, 24 (2), 25; ♀♀ 20, 22, 23, 25, 26  
*Thraupis palmarum*: ♂ 32  
*Euphonia violacea*: ♂ 14; ♀ 14  
*Tangara mexicana*: ♂ 21  
*Phaeothlypis rivularis*: unsexed 11  
*Granatellus pelzelni*: ♀ 11  
*Coereba flaveola*: ♀ 8.8  
*Hylophilus brunneiceps*: ♂♂ 8.0, 11; ♀ 8.0  
*Psarocolius decumanus*: ♂ 232  
*Gymnostinops yuracares neivae* × *G. bifasciatus*: ♂♂ 290, 385, 445; ♀♀ 184, 210, 215  
*Cacicus cela*: ♂ 98

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### References:

- Griscom, L. & Greenway, J. C. Jr 1941. Birds of Lower Amazonia. *Bull. Mus. Comp. Zool.* 88: 83-344.
- Morony, J. J., Jr, Bock, W. J. & Farrand, J., Jr 1975. *Reference List of the Birds of the World*. American Museum of Natural History, New York.
- Oren, D. C. 1987. Cherrie's spinetail (*Synallaxis cherriei* Gyldenstolpe) (Aves: Furnariidae) in Carajás and Gorotire, Pará, Brazil. *Bol. Mus. Paraense Emilio Goeldi, nov. ser. Zool.* 3: 1-9.
- Sneathlge, E. 1913. Über die Verbreitung der Vogelarten in Unteramazonien. *J. Orn.* 61: 469-539.

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### Appendix

Species recorded on the east bank of the Rio Xingu from 13 August to 30 September 1986 but not collected.

<i>Tinamus guttatus</i>	<i>Actitis macularia</i>	<i>Cotinga cayana</i>
<i>Anhinga anhinga</i>	<i>Sterna superciliaris</i>	<i>Tityra semifasciata</i>
<i>Butorides striatus</i>	<i>Rynchops niger</i>	<i>Tityra inquisitor</i>
<i>Egretta thula</i>	<i>Anodorhynchus hyacinthinus</i>	<i>Tyrannus melancholicus</i>
<i>Pilherodius pileatus</i>	<i>Ara chloroptera</i>	<i>Myiozetetes similis</i>
<i>Mycteria americana</i>	<i>Graydidascalus brachyurus</i>	<i>Pitangus sulphuratus</i>
<i>Mesembrinibis cayennensis</i>	<i>Amazona farinosa</i>	<i>Pitangus lictor</i>
<i>Cairina moschata</i>	<i>Crotophaga ani</i>	<i>Myiobius</i> sp.
<i>Sarcoramphus papa</i>	<i>Pulsatrix perspicillata</i>	<i>Tachycineta albiventer</i>
<i>Coragyps atratus</i>	<i>Nyctibius griseus</i>	<i>Progne chalybea</i>
<i>Cathartes aura</i>	<i>Chaetura cinereiventris</i>	<i>Atticora melanoleuca</i>
<i>Elanoides forficatus</i>	<i>Panyptila cayennensis</i>	<i>Volatinia jacarina</i>
<i>Ictinia plumbea</i>	<i>Anthracothorax nigricollis</i>	<i>Dacnis cayana</i>
<i>Buteo magnirostris</i>	<i>Hylocharis cyanus</i>	<i>Dacnis flaviventer</i>
<i>Leucopternis albicollis</i>	<i>Trogon melanurus</i>	<i>Cyanerpes</i> sp.
<i>Buteogallus urubitinga</i>	<i>Trogon violaceus</i>	<i>Tachyphonus luctuosus</i>
<i>Pandion haliaetus</i>	<i>Ceryle torquata</i>	<i>Thraupis episcopus</i>
<i>Daptrius ater</i>	<i>Bucco capensis</i>	<i>Cyclarhis gujanensis</i>
<i>Polyborus plancus</i>	<i>Piculus chysochloros</i>	<i>Molothrus bonariensis</i>
<i>Mitu mitu</i>	<i>Campephilus melanoleucos</i>	<i>Icterus cayenensis</i>
<i>Heliornis fulica</i>	<i>Cranioleuca gutturata</i>	